FIG. 1

2-A: TRANSMITTING APPARATUS A

2-B: TRANSMITTING APPARATUS B

2-C: TRANSMITTING APPARATUS C

2-N: TRANSMITTING APPARATUS N

WIRELESS COMMUNICATION LINE (TRANSMITTAL SIGNALS)（無線通信回線（伝送信号））

3: RECEIVING APPARATUS

RADIO COMMUNICATION SYSTEM 1

FIG. 2

TRANSMITTAL DATA（伝送データ）

200: ENCODING CIRCUIT

FRAME SIGNAL（フレーム信号）

202: MULTIPLEXING CIRCUIT

TRANSMITTING DATA（送信データ）

204: TIMING CIRCUIT

UNIQUE WORD（ユニークワード）

206: UNIQUE WORD GENERATING CIRCUIT

208: MODULATING CIRCUIT

210: TRANSMITTING CIRCUIT

BASE BAND SIGNAL（ベースバンド信号）

TRANSMITTAL SIGNAL（伝送信号）

TRANSMITTING APPARATUS 2

FIG. 3

FRAME（フレーム）

PREAMBLE (UNIQUE WORD)（プリアンブル（ユニークワード））

TRANSMITTAL DATA（伝送データ）

FIG. 4

TRANSMITTAL SIGNAL（伝送信号）

300: RECEIVING CIRCUIT

IF DATA（ＩＦデータ）

DSP CIRCUIT（ＤＳＰ回路）

32: FORMULA SELECTING SECTION

UNIQUE WORD (FORMULA TYPE DATA)（ユニークワード（（方式種別）））

302: DECODING SECTION

304: TIMING GENERATING SECTION

RECEIVED DATA（受信データ）

TIMING（タイミング）

306: DATA SEPARATING SECTION

308: DATA DECODING SECTION

TRANSMITTAL DATA（伝送データ）

RECEIVING APPARATUS 3

FIG. 5

UNIQUE WORD STORAGE SECTION 340

UNIQUE WORDS A THROUGH N

RECEIVED DATA（受信データ）

CORRELATION DETECTING SECTION 36

CORRELATIONS A THROUGH N

FORMULA DISTINGUISHING SECTION 342

FORMULA TYPE（方式種別）

THRESHOLDS A THROUGH N

PROCESSING CONTROL SECTION 346

THRESHOLD STORAGE SECTION 344

FORMULA DISTINGUISHING PROGRAM 34

FIG. 6

(A) FRAME

THRESHOLD A

(B) CORRELATION A

THRESHOLD B

(C) CORRELATION B

THRESHOLD N

(D) CORRELATION N

(E) FORMULA TYPE (UNIQUE WORD)

FIG. 7

UNIQUE WORD STORAGE SECTION 340

UNIQUE WORDS A THROUGH N

RECEIVED DATA (受信データ)

CORRELATION DETECTING SECTION 36

CORRELATIONS A THROUGH N

FORMULA DISTINGUISHING SECTION 342

FORMULA TYPE (方式種別)

THRESHOLDS A' THROUGH N'

PROCESSING CONTROL SECTION 346

THRESHOLD ALTERING SECTION 380

THRESHOLDS A THROUGH N

31

THRESHOLD STORAGE SECTION 344

FORMULA DISTINGUISHING PROGRAM 38

FIG. 8

(A) FRAME

THRESHOLD A

THRESHOLD A'

(B) CORRELATION A

THRESHOLD B

THRESHOLD B'

(C) CORRELATION B

THRESHOLD N

THRESHOLD N'

(D) CORRELATION N

(E) FORMULA TYPE (UNIQUE WORD)

FIG. 9

START (開始)

S100   READ INITIAL THRESHOLD

S102   INPUT IF DATA

S104   IF DATA NORMAL

S106   DETECT CORRELATION

S108   DISTINGUISH FORMULA (UNIQUE WORD)

S110   SUCCEEDED IN DISTINGUISHING?

S112   OUTPUT FORMULA TYPE

S114   ALTER THRESHOLD (EXPAND RANGE) OF DETERMINED FORMULA

S116   ALTER THRESHOLDS (NARROW RANGE) OF OTHERS THAN DETERMINED

32

FORMULA

S118 START EXCEPTION PROCESSING?

S120 PERFORM EXCEPTION PROCESSING

FIG. 10

(A) FRAME

UPPER LIMIT （上限値）

(B) CORRELATION A

THRESHOLD A, LOWER LIMIT （閾値A、下限値）

THRESHOLD B, UPPER LIMIT （閾値B、上限値）
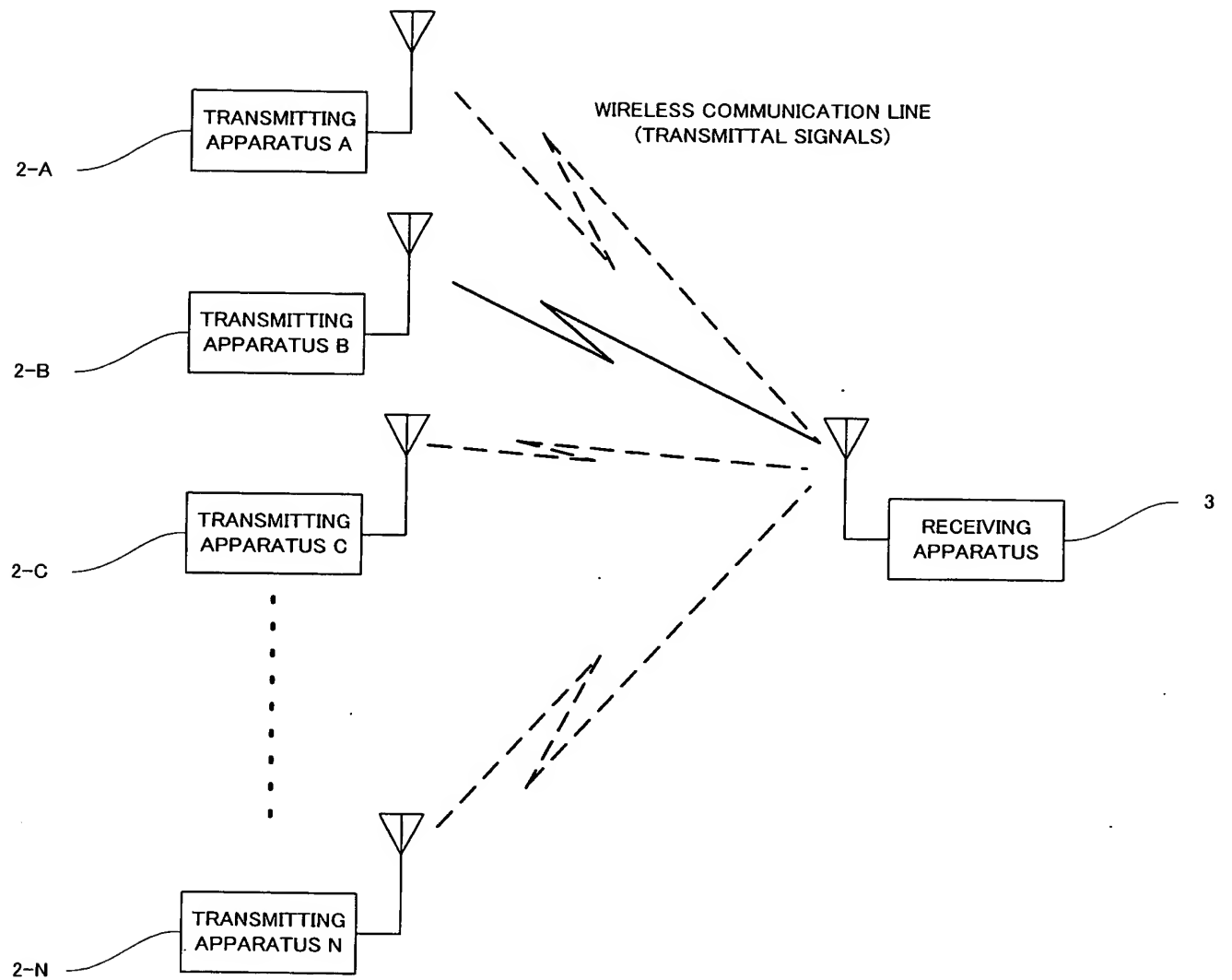
THRESHOLD B'

(C) CORRELATION B

LOWER LIMIT （下限値）

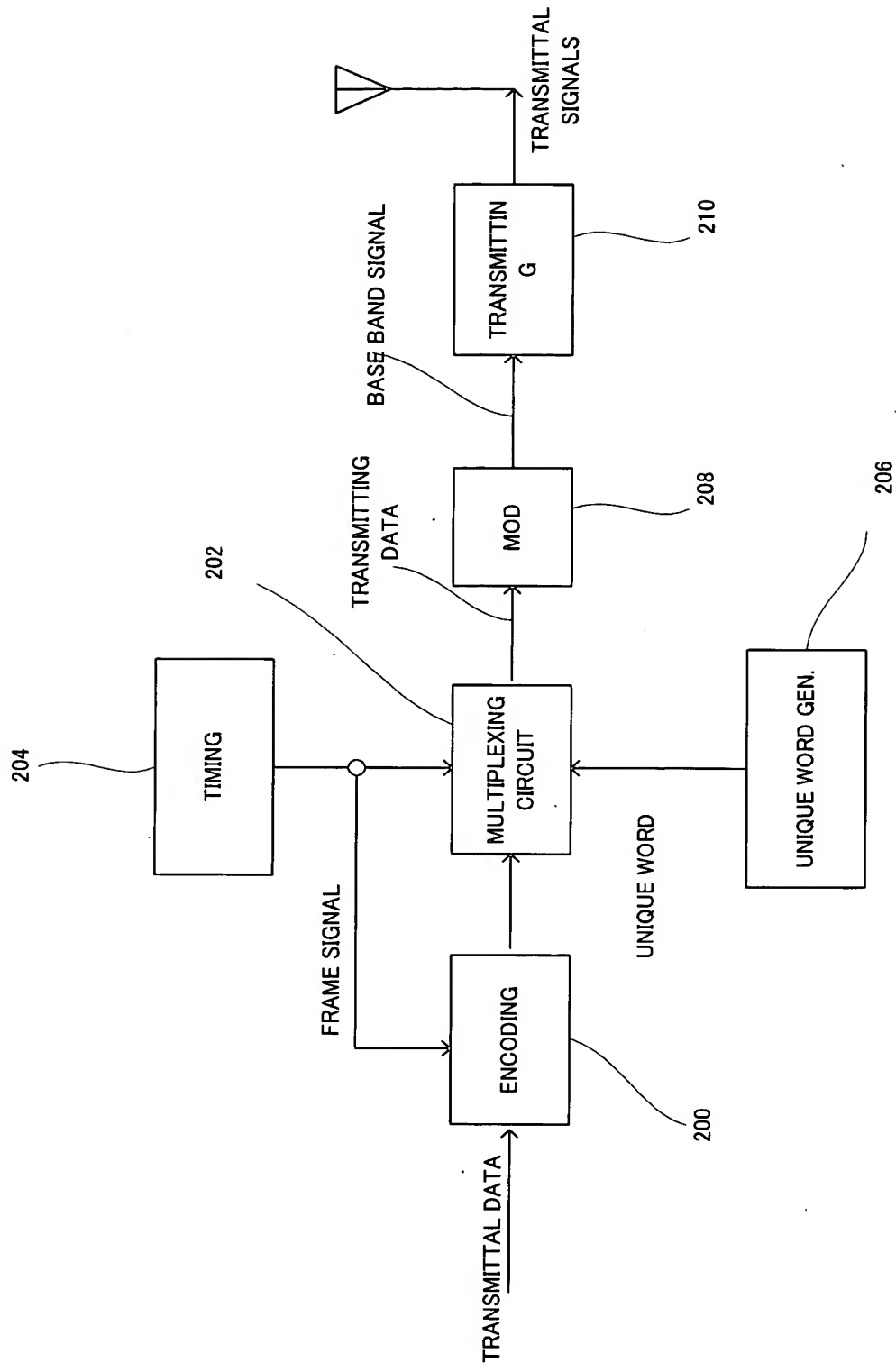THRESHOLD N, LOWER LIMIT （閾値N、下限値）

THRESHOLD N' （閾値N'）

LOWER LIMIT （下限値）

(D) CORRELATION N

(E) FORMULA TYPE (UNIQUE WORD)

TRANSMITTING
APPARATUS A

2-A

TRANSMITTING
APPARATUS B

2-B

TRANSMITTING
APPARATUS C

2-C

TRANSMITTING
APPARATUS N

2-N

WIRELESS COMMUNICATION LINE
(TRANSMITTAL SIGNALS)

RECEIVING
APPARATUS

3

RADIO COMMUNICATION SYSTEM 1

Fig. 1

TRANSMITTING APPARATUS 2

FIG. 2

	FRAME	
PREAMBLE (UNIQUE WORD)	TRANSMITTAL DATA	

FIG. 3

DSP CIRCUIT

32

IF DATA

TRANSMITTAL SIGNALS

RECEIVING

300

FORMULA SELECTING

UNIQUE WORD (FORMULA TYPE DATA)

TIMING GEN.

304

DEC

302

RECEIVED DATA

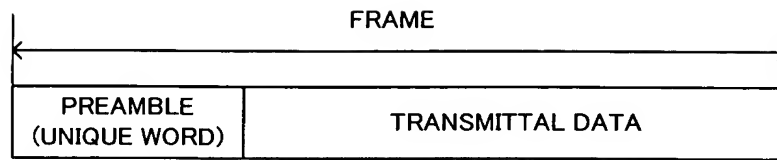TIMING
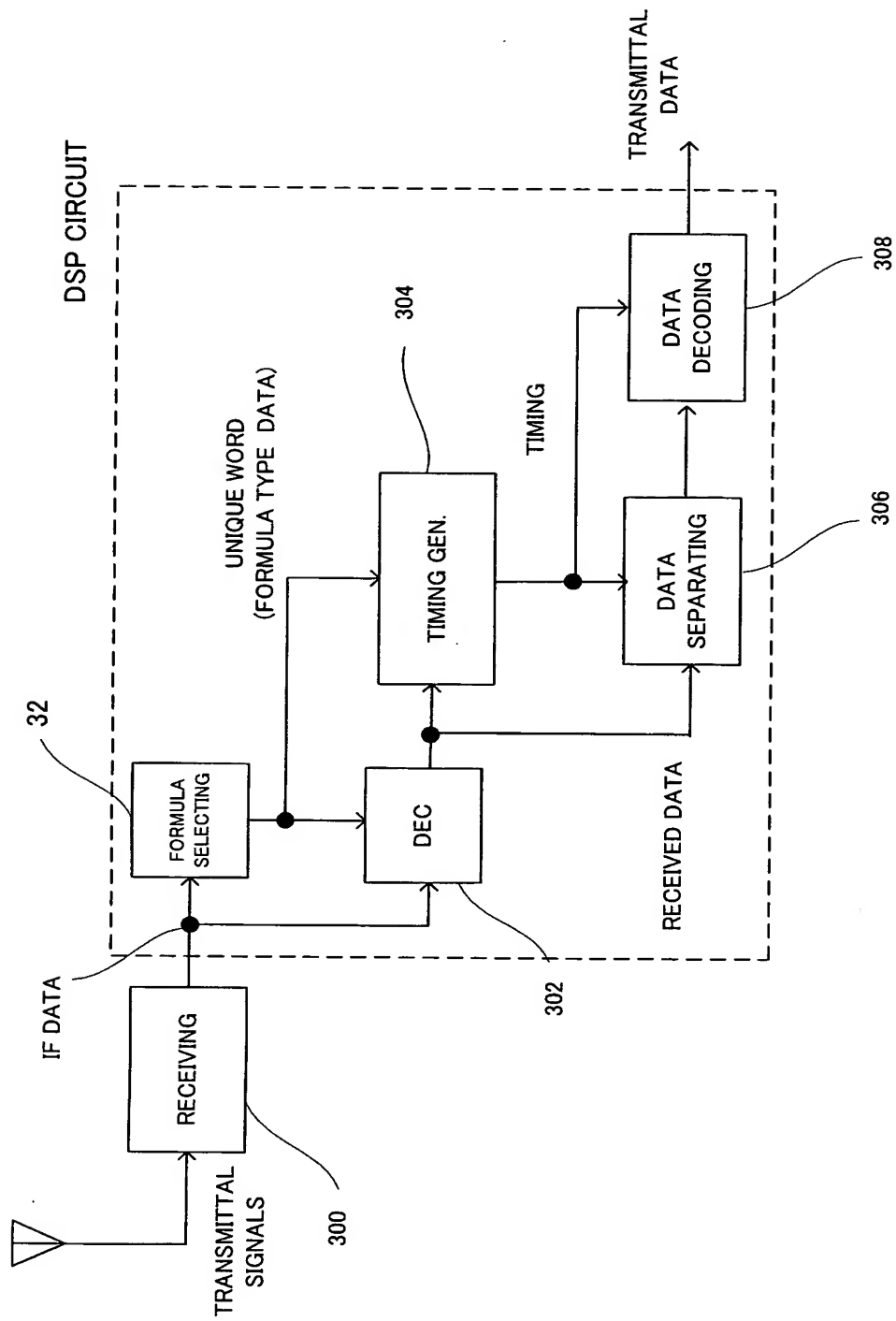
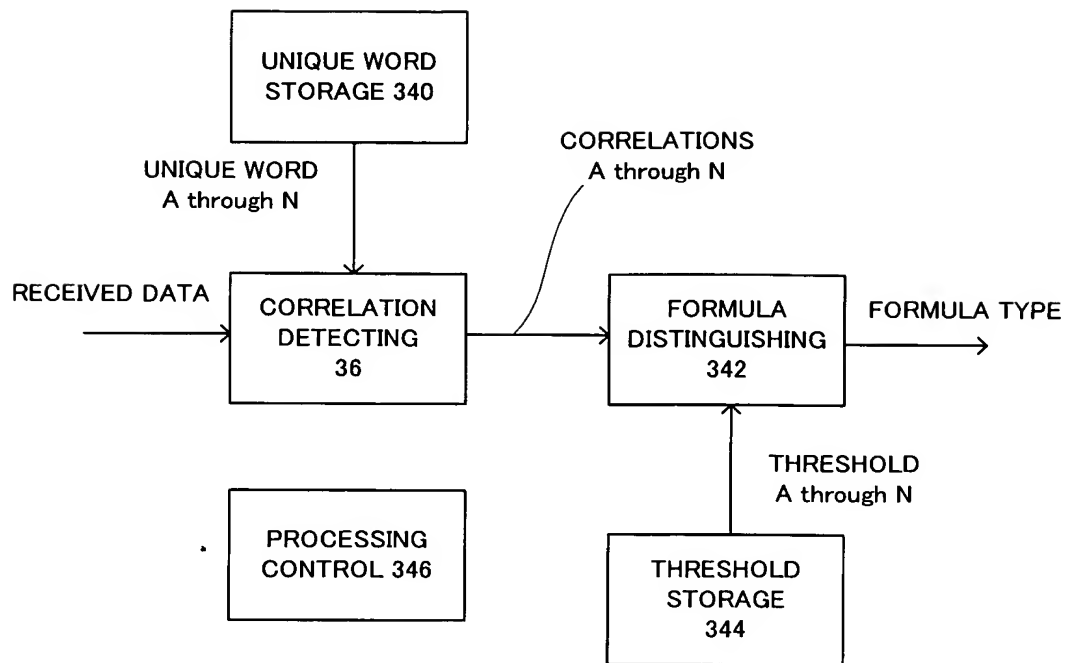DATA SEPARATING

306

DATA DECODING

308

TRANSMITTAL DATA

RECEIVING APPARATUS 3
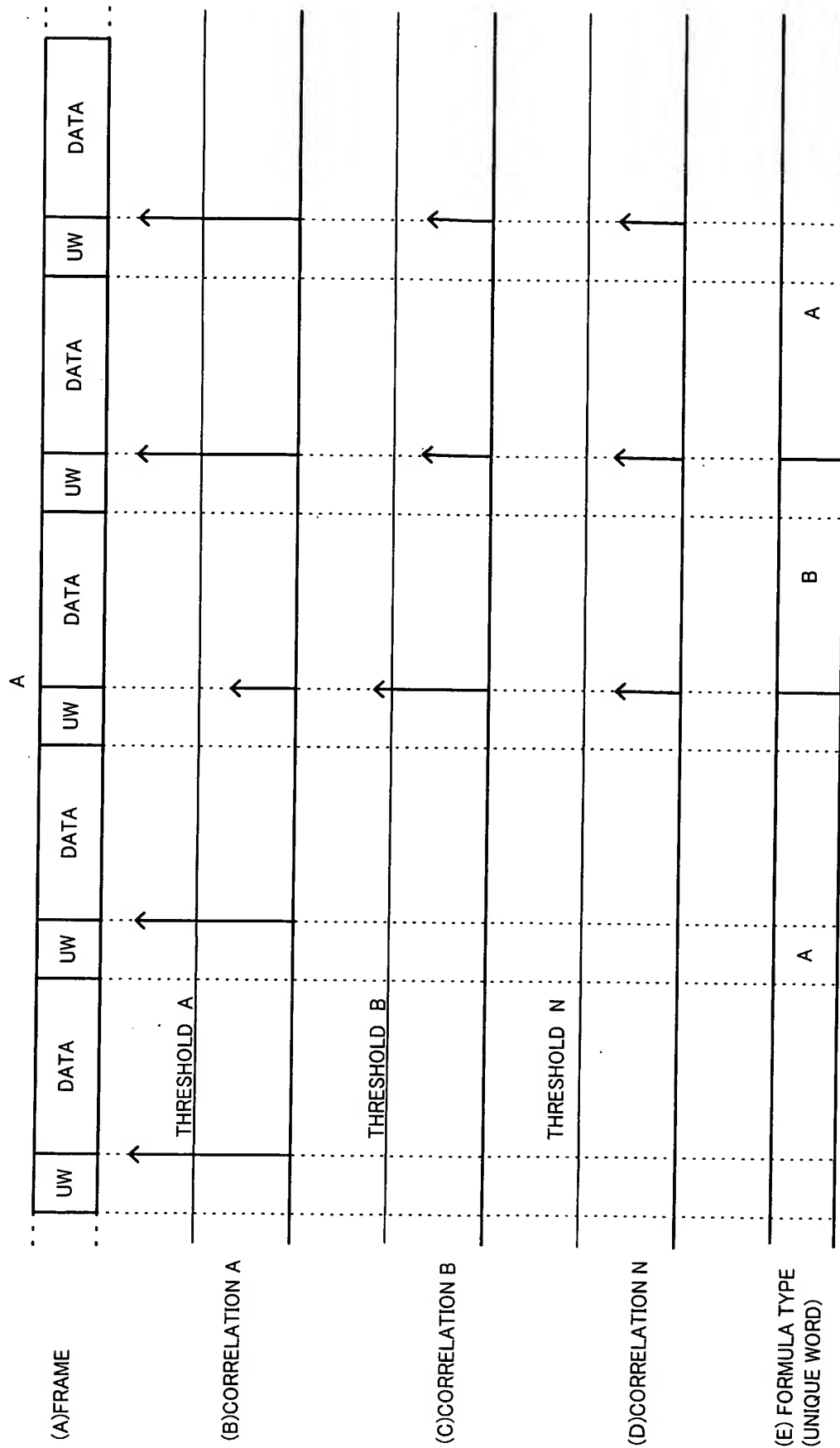
FIG. 4

FORMULA DISTINGUISHING PROGRAM 34

FIG. 5

FIG. 6
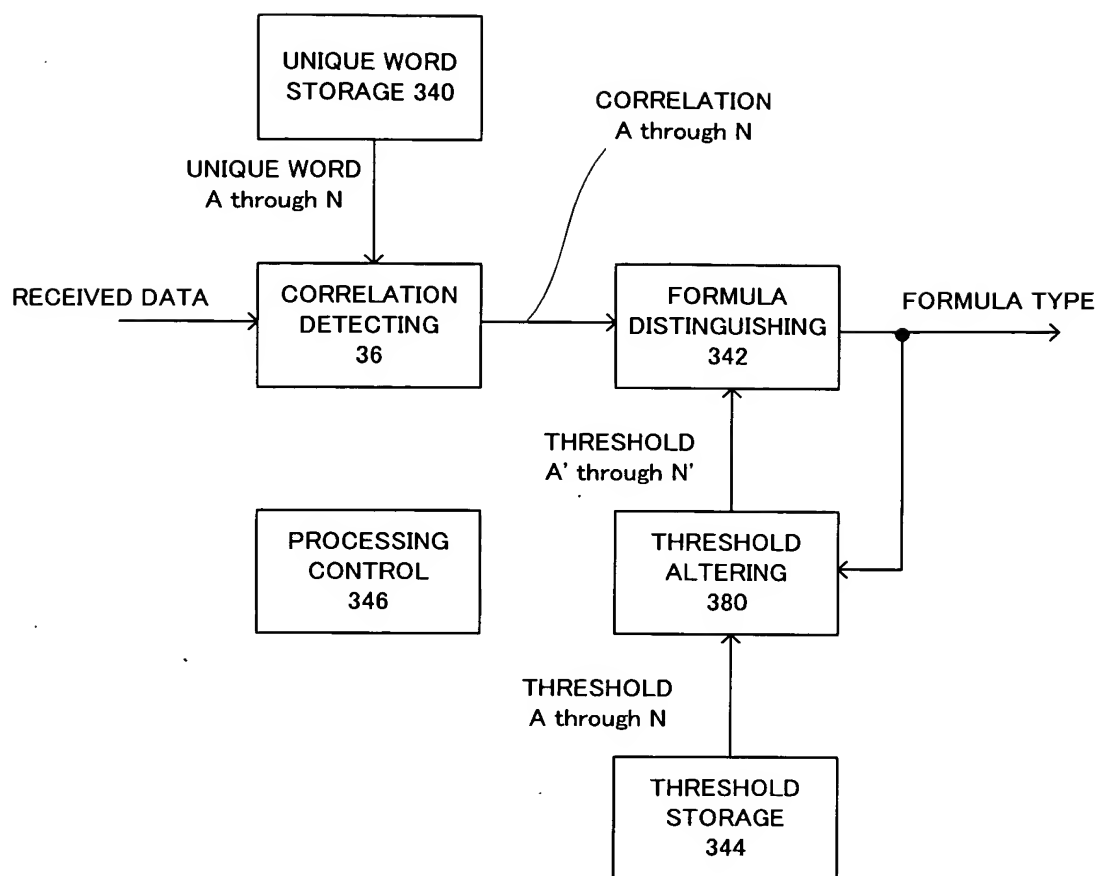
FORMULA DISTINGUISHING PROGRAM 38

FIG. 7

(A)FRAME

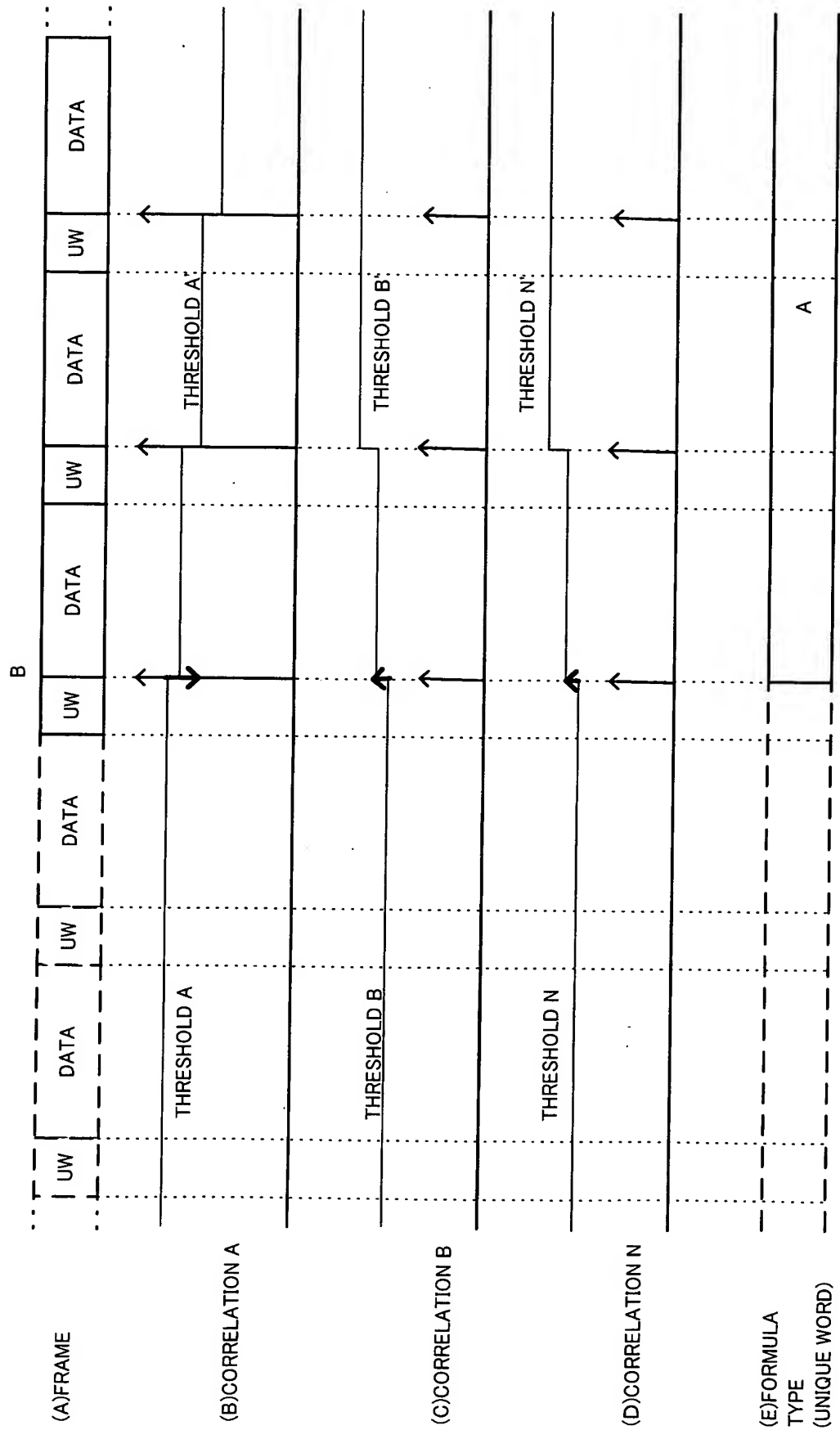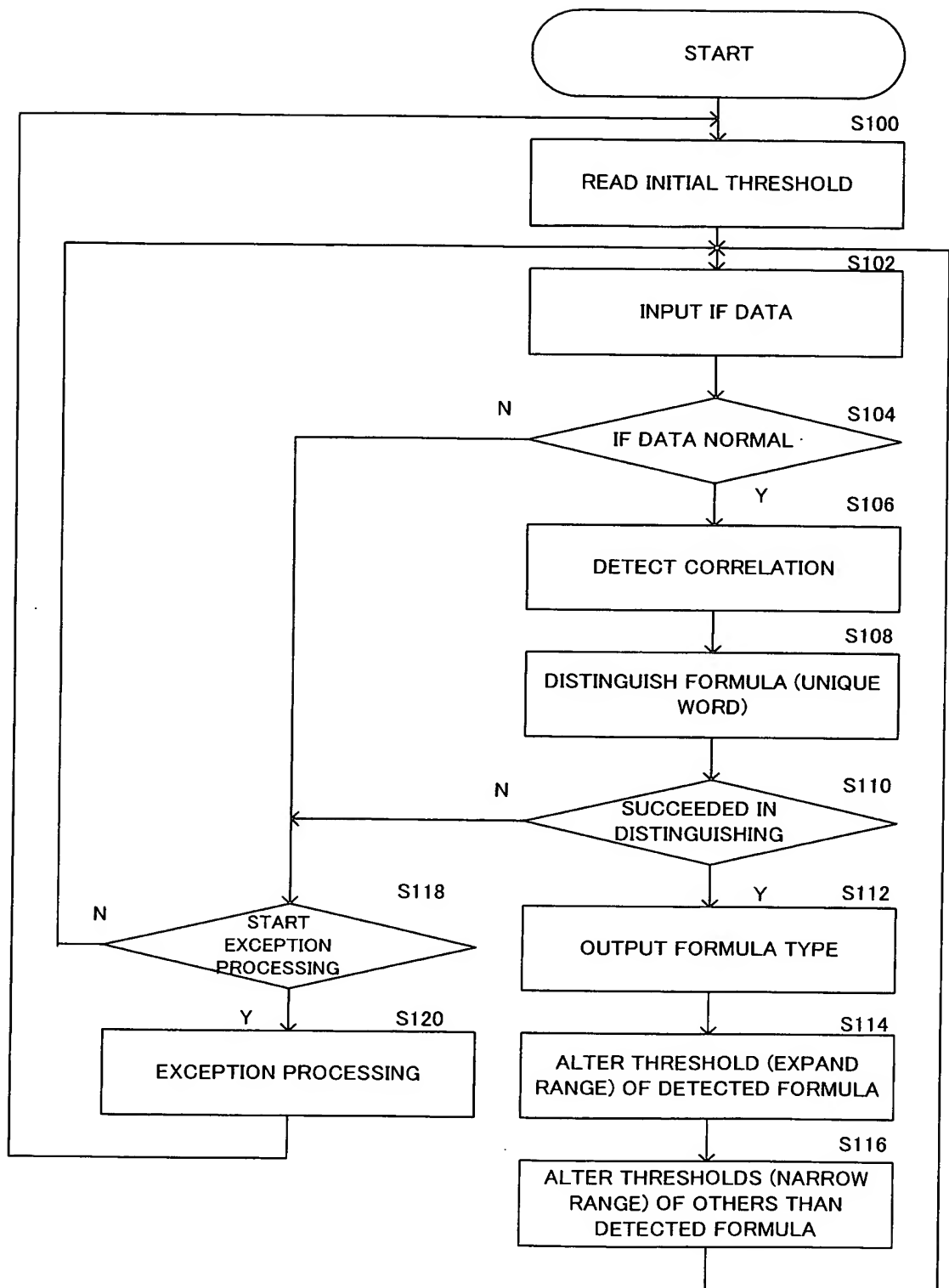| UW | DATA | UW | DATA | UW | DATA | UW | DATA | UW | DATA |

(B)CORRELATION A   THRESHOLD A   THRESHOLD A'

(C)CORRELATION B   THRESHOLD B   THRESHOLD B'

(D)CORRELATION N   THRESHOLD N   THRESHOLD N'

(E)FORMULA
TYPE
(UNIQUE WORD)   A

B

FIG. 8

START

S100
READ INITIAL THRESHOLD

S102
INPUT IF DATA

S104
IF DATA NORMAL · — N

Y

S106
DETECT CORRELATION

S108
DISTINGUISH FORMULA (UNIQUE WORD)

S110
SUCCEEDED IN DISTINGUISHING — N

Y S112
OUTPUT FORMULA TYPE

S118
START EXCEPTION PROCESSING — N

Y S120
EXCEPTION PROCESSING

S114
ALTER THRESHOLD (EXPAND RANGE) OF DETECTED FORMULA

S116
ALTER THRESHOLDS (NARROW RANGE) OF OTHERS THAN DETECTED FORMULA

S10

FIG. 9

(A)FRAME

| UW | DATA | UW | DATA | UW | DATA | UW | DATA | UW | DATA |

A

(B)CORRELATION A

UPPER LIMIT

THRESHOLD A, LOWER LIMIT

THRESHOLD B, UPPER LIMIT

THRESHOLD B

(C)CORRELATION B

LOWER LIMIT

THRESHOLD N, LOWER LIMIT

THRESHOLD N

(D)CORRELATION N

LOWER LIMIT

(E) FORMULA TYPE (UNIQUE WORD)

A

FIG. 10